



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Frank L. Hall

Serial No.: 09/863,676

Filed: May 21, 2001

For: METHODS FOR PREPARING BALL GRID ARRAY SUBSTRATES VIA USE OF

A LASER

Confirmation No.: 1281

Examiner: S. Heinrich

Group Art Unit: 1725

Attorney Docket No.: 2269-4718US

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In compliance with the duty to disclose information material to patentability pursuant to 37 C.F.R. § 1.56, it is respectfully requested that this Supplemental Information Disclosure Statement be entered and the documents listed on attached Form PTO/SB/08 be considered by the Examiner and made of record. Copies of U.S. patents are <u>not</u> being submitted pursuant to M.P.E.P. 609 III A(2). Copies of foreign patent documents are enclosed pursuant to 37 C.F.R. § 1.98(a)(2).

In accordance with 37 C.F.R. § 1.97(g) and (h), filing of this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made or an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b). Further, no representation is made by Applicant herein that no other possible material information as defined in 37 C.F.R. § 1.56 (b) exists.

U.S. Patent Documents

U.S. Patent No.	Publication Date	<u>Patentee</u>
US - 4,904,498	02/1990	Wu
US - 5,852,870	12/1998	Freyman et al.
US - 5,928,533	07/1999	Benea et al.
US - 6,281,090	08/2001	Kukanskis et al.
US - 6,866,910	03/2005	Kamezaki et al.
US - 2002/0089058	07/2002	Hedler et al.

Foreign Patent Documents

Document No.	Publication Date	<u>Patentee</u>
JP 360097643 A	06/1985	Mitsubishi Electric Corp.
JP 403155488 A	07/1991	NOK Corp.
JP 05144093 A	06/1993	Seiko Epson Corp.
JP 408167769 A	06/1996	Polyplastics
JP 11006073 A	01/1999	Omron KK

Applicant offers to supply any explanation or discussion of the documents which the Examiner feels is necessary or desirable and which is requested.

This Supplemental Information Disclosure Statement is believed to be filed before the mailing date of the first Office Action on the merits subsequent to the filing of an RCE in the above-identified application.

Respectfully submitted,

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Date: March 29, 2006

JRD/djp:lmh

Enclosures: Form PTO/SB/08

Copy of foreign documents

Document in ProLaw

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

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Sheet

Complete if Known		
Application Number	09/863,676	
Filing Date	May 21, 2001	
First Named Inventor	Frank L. Hall	
Group Art Unit	1725	
Examiner Name	S. Heinrich	
Attorney Docket Number	2269-4718US (00-0316.00/US)	

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No.1	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	<u> </u>	US-4,904,498	02/1990	Wu	1,52.00.1,550.00
	1	US- 5,852,870	12/1998	Freyman et al.	
		US- 5,928,533	07/1999	Benea et al.	
	1	US- 6,281,090	08/2001	Kukanskis et al.	
		US- 6,866,910	03/2005	Kamezaki et al.	
		US- 2002/0089058	07/2002	Hedler et al.	
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Examiner Cite		Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,		
Initials* No.1			Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T ⁶
		JP 360097643 A	06/1985	Mitsubishi Electric Corp.		×	
		JP 403155488 A	07/1991	NOK Corp.		X	
		JP 05144093 A	06/1993	Seiko Epson Corp.		X	
		JP 408167769 A	06/1996	Polyplastics		X	
		JP 11006073 A	01/1999	Omron KK	·	X	
			1				

Examiner Signature	Date Considered	

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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.